

E 02 - 64-3861

13 JUN 1964

DD/S&T-6821-64

HDM 2.1

**MEMORANDUM FOR :** Deputy Director of Central Intelligence  
**THROUGH :** Executive Director -- Comptroller  
**SUBJECT :** Approval of Funds to Pursue Development  
of General Purpose ELINT Processor

1. This memorandum transmits a recommendation for approval. Such recommendation is contained in paragraph six.
2. The Office of ELINT has a requirement for a means of reducing analog ELINT data to digital form for computer processing in field environments. Its objectives are increased efficiency in analyst manpower, reduced analysis time to provide signal environment information to airborne operations, and a data format suitable for machine processing of statistical parameters of emitters and their locations.

25X1A5A1

3. [REDACTED] has recently completed a study of the problem, utilizing a general-purpose computer as a processor model. The computer, suitably programmed, was found capable of reducing raw data to printed form with performance comparable to that of a human analyst in less time. Success in the study program resulted in solicitation of the present proposal, which represents a processor suitable for field use with characteristics similar to the previous one. The processor will convert analog ELINT tapes of up to eight kilocycles per second to a digital tape format, a printed emitter list and a visual display for emitter identification.

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4. Cost of the program would be allocated as follows:

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[REDACTED]  
Input

25X1A5A1

Output

Program

25X1A5A1

SDS 910 computer with appropriate software, one year rental.

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The current (FY-64) ELINT budget includes [REDACTED] for the requested program; the remainder will be obtained by reprogramming.

5. Background data contained in attachments A and B is designed to provide necessary technical information upon which to evaluate the approval action recommended in paragraph six.

6. Based on the foregoing, it is recommended that approval be granted to obligate [REDACTED] for purposes set forth herein.

25X1A9A

25X1A1A

Signed:

*[Signature]*

ALBERT D. WHEELON  
Deputy Director  
for  
Science and Technology

APPROVED:

(signed) Lyman B. Kirkpatrick

3 JUN 1964

*for*

Deputy Director of Central Intelligence

Date

Attachments:

A. Technical Outline

B. [REDACTED] Proposal

25X1A5A2

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